

Atty. Docket No. 1856-09501 (98/002)

Serial No. 10/024,167

Applicant

Alfred E. KELLER, et al.

Filing Date 12/18/01

Group 1754

Abstract

SITIAL,		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE I APPROPRIATE
76	*AA	1,930,716	10/17/33	Jaegar	260	57	
700	AB	2,963,348	06-07-57	Sekkers	23	225	
JW.	AC	4,038,036	7/26/77	Beavon	23	262	
301	*AD	4,219,445	8:26'80	Finch	252	443	
201	*AE	4,271,041	6:2:81	Boudart	252	438	
70~	AF	4,279,882	07/21/81	Beavon	423	574	
gov	AG	4,311,683	01/19/82	Hass, et al.	423	573	
Jew	*AH	4,325,842	4 20 82	Slaugh	252	443	1
In	*AI	4,325,843	4/20/82	Slaugh	252	443	E).
701	*AJ	4,326,992	4/27/82	Slaugh	252	443	
764	*AK	4,331,544	5.25.82	Takaya	252	443	
}W	Al.	4,406,873	09/27/83	Beavon	423	574	
762	AM	4,481,181	11/06/84	Norman	423	573	,
700	*AN	4,814,159	03/21/89	Voirin	423	574	
22	AO	4,886,649	12/12/89	Ismagilov	423	230	,
26V	AP	4,889,701	12/26/89	Jones, et al.	423	220	
in.	AQ	4,891,187	01/02/90	Jungfer, et al.	423	248	
ici	AR	4,988,494	01/29/91	Lagas, et al.	423	574	70
101	*AS	5,338,716	8/16/94	Triplett	502	64	<i>C</i>
ion	AT	5,397,556	03/14:95	Towler, et al.	423	220	
W	*AU	5,451,557	9/19/95	Sherif	502	177	
acri	AV	5,512,260	04/30/96	Kiliany, et al.	423	242.1	
3	*AW	5,573,991	11/12/96	Sherif	502	177	
iv.	AX	5,597,546	01/28/97	Li, et al.	423	573.1	
10-1	AY	5,603,913	2/18/97	Alkhazov	423	230	
2CV	AZ	5,639,929	06 17/97	Bharadwaj, et al.	585	658	
low.	*BA	5,648,582	7/15/97	Schmidt	585	652	
Fort	BB	5,653,953	08/05/97	Li, et al.	423	576.8	
~	BC	5,654,491	8.5.97	Goetsch	568	469.9	
c d	BD	5,676,921	10/14/97	Heisel, et al.	423	573.1	
CN	BE	5,700,440	12/23/97	Li	423	231	
}~	BF	5,720,901	02/24/98	De Jong, et al.	252	373	
)¢√	BG	5,807,410	9/15//98	Borsboom	23	293	
ktni.	BH	5,814,293	09/29/98	Terorde, et al.	423	576	
CN	BI	5,891,415	04/06/99	Alkhazov, et al.	423	573.1	
100	BJ	5,897,850	4/27/99	Borsboom	423	576.2	
KN _	BK	5,965,100	10/12/99	Khanmamedov	423	576.8	
67	BI.	6,017,507	01/25:00	Nougayrede, et al.	423	573.1	
(N	BM	6,083,471	07/04/00	Philippe, et al.	423	573.1	
CON	BN	6,099,819	08/08/00	Srinivas, et al.	423	573.1	
100	BO	6,103,206	08-15-00	Taylor, Jr., et al.	423	210	
31~	BP	6,103,773	08/15/00	Wittenbrink, et al.	518	702	<u> </u>
REIGN PAT					<u> </u>		
	BQ	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	Translation
	1	1	1	I	ı	I	YES NO

Timeling Vancy July 1 2003

11 30 94

2023655

74606.01 1856.09501

Form PTO-1449 INFORMA (Use several she	TION DISC		Atty. Docket No. 1856-09501 (98/002)	Serial No. 10/024,167			
		ير ١٠١١ ٢ ٤ 2002 بيا	Alfred E. KELLER	, et al.			
			Filing Date 12/18/01	Group 1754			
OTHER ART (Including Auth	or, Title, Date, Pertinent Pages, Etc.)					
	BT	Watson, et al., The Successful Use of Oxygen in Claus Plants, HTI Quarterly: W	inter 1995/1996, pp. 95-	-101.			
	BU	Gamson and Elleins, Chem Eng. Prog. 4: 9: 203-215, 1953					
Ja	. *BV	Claridge, et al, New Catalysts for the Conversion of Methane to Synthesis Gas: 180, 85-100 (1998).	Molybdenum and tungste	en Carbide, J. Catalysis			
Jin	*BW	D.A. Hickman, et al., Synthesis Gas Formation by Direct Oxidation of Methan (1992).	e over Pt Monoliths, J. ('atalysis 138, pp. 267-282			
Jer	*BX	A. Cybulski and J.A. Moulijin, Transformation of a Structured Carrier into Structures, Marcel Dekker, pp. 599-615, 1998.	ctured Catalyst, Structu	red Catalysts and			
Jul	BY	M.E.D. Raymont, Role of hydrogen in Claus plants, Hydrocarbon Processing, 1	77-179 (1975)				
5ω	BZ	Richard K. Kerr, et al. A new sulfur-recovery process: The RSRP, Oil & Gas Journal 230-243 (1982)					
7w	CA	M.E.D. Raymont, Make hydrogen from hydrogen sulfide, Hydrocarbon Processing, 139-142 (1975)					
7W	CB	R.H. Hass, et al, Process meets sulfur recovery needs, Hydrocarbon Processing	104-107 (1981)				
N.W.	CC	J.A. Lagas, et al, Selective-oxidation catalyst improves Claus process, Oil & Gas	Journal, 68-71 (1988)				
Ju	CD	Z.R. Ismagilov, et al, New Catalysts and Processes For Environment Protection, React. Kinet. Catal. Lett., Vol. 55, No. 2, 489-499 (1995)					
14	CE	Kuo-Tseng Li and Ni-Shen Shyu, Catalytic Oxidation of Hydrogen Sulfide to Sulfur on Vanadium Antimonate, Ind. Eng. Chem. Res. 1480-1484 (1997)					
Jer J	CF	J. B. Hyne, Methods for desulfurization of effluent gas streams, The Oil & Gas.					
30~	CG	B. Gene Goar, <i>Today's Sulfur Recovery Processes</i> , Hydrocarbon Processing Vo		(68)			
Jo√	CH	R. Gene Goar, First Recycle Selectox unit onstream, Oil & Gas Journal, 124-125 (1982)					
Ja	Cl	Sung Woo Chun, et al, Selective oxidation of H2S to elemental sulfur over TiOy Environmental 16, 235-243 (1998)		(194			
JW.	Cl	H. Austin Taylor and Charles F. Pickett, The Decomposition of Hydrogen Sulph		., Vel. 31, pgs.121			
JLV	CK	J. Chao, Properties of Elemental Sulfur, Hydrocarbon Processing, 217-223, (19		7 0			
14	CL	David M. Haaland, Noncatalytic Electrodes for Solid-Electrolyte Oxygen Sensor and Technology, Vol 127, No. 4, 796-804 (1980)					
9W	СМ	J.W. Mellor, A Comprehensive Treatise on Inorganic and Theoretical Chemistry, Vol X, Longmans, Green and Co., New York, 118-119, 128-129, 206-213,221-223,144-148,152-159,162-166,393-400					
<u> </u>	CN	PCT SEARCH REPORT IN PCT/US00/40489 26/67/2005					
76	CO	PCT SEARCH REPORT IN PCT/US00/20252 26/07/2000					
	*CP	PCT SEARCH REPORT IN PCT/US01/148795 dated 26 June 2002 (4 pp.)					
			. 1				
EXAMINER	imothy	Vanu date consi	DERED July	12003			
		ce considered, whether or not citation is in conformance with MPEP §609; Dr. opy of this form with next communication to the applicant.	aw line through citation	n if not in conformance			

^{*} refers to references which are being submitted with this Information Disclosure Statement.

Form PTO-1449 (Modified)				
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	Atty. Dock 1856-095 (98/002)	501	Serial No. 10/024,1	
We several sheets if necessary) JUL 3 0 2002	Applicant Alfred E.	KELLER,	et al.	
JUL 3 LE S	Filing Date 12/18/01	te	Group	
18ADE	12/18/01		1754	
REFERENCE DESIGNATION U.S. PATENT DOCUMENTS		Τ	T	
EXAMINER DOCUMENT DATE NAME INITIAL NUMBER	CLASS	SUB- CLASS	FILING I APPROP	DATE IF PRIATE
AA 4,797,268 01 10 89 McGovern et al.	423	574 R	11/30/198	37
		ļ		
		 		
OPHONIALLY PAPERS				
OFIGNIA, PAR		-		
"UV TERS		-		
FOREIGN PATENT DOCUMENTS			<u> </u>	
DOCUMENT DATE COUNTRY	CLASS	SUB-	Translatio	ion
NUMBER		CLASS	YES	NO
ВА				
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)				
CA PCT SEARCH REPORT IN PCT-US01-48792 dated 08 JULY 2002	1.0.1 SEATHOR REPORT IN TO 17 (0.7.72 dated 0.0.7.02 f 2.0.02			
· I I	. / .	<u>C'</u>		
	-01		•	ī
	10/3	7		
	70 y	7000		
	7	7000		
	C 7	7000		
	70/3 			
EXAMINER Melly May DATE CO.	NSIDERED JO		2003	

Form PTO-1449 (Modified) Serial No. AU6 2 0 2002 Atty. Docket No. 10/024,167 1856-09501 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (98/002)Applicant Alfred E. KELLER, et al (Use several sheets if necessary) Part of Parent 8 Filing Date Group 1754 19456 12/18/01 REFERENCE DESIGNATION U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NAME CLASS SUB-FILING DATE IF DATE NUMBER APPROPRIATE CLASS Aur 5,472,920 12.05.95 Dubois et al. 501 103 AA OF CALL AΒ 5,232,467 08 03 93 Child et al. 127.3 FOREIGN PATENT DOCUMENTS DOCUMENT DATE COUNTRY CLASS SUB-Translation NUMBER CLASS YES NO BA OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) CAPCT SEARCH REPORT IN PCT/US00/34692 dated 31 JULY 2002

EXAMINER DATE CONSIDERED JULY (2003)

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP \$609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.